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# *the* **ILLINOIS ENGINEER**



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NEW SEISMIC EQUIPMENT—ILLINOIS STATE GEOLOGICAL SURVEY  
(See page 3)

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**THE ILLINOIS ENGINEER, MAY, 1952—VOLUME XXVIII, NO. 5**

• Address all communications to the Society at 631 East Green St., Champaign, Illinois.  
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Affiliated with the National Society of Professional Engineers

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# Of Professional Interest

I hold every man a debtor to his profession; from the which as men of course do seek to receive countenance and profit, so ought they of duty to endeavor themselves by way of amends to be a help and ornament hereunto.—Sir Francis Bacon

## THE ILLINOIS ENGINEER—THIS MONTH

*The Annual Meeting of the National Society of Professional Engineers occurs on June 5, 6 and 7, next, in Tulsa, Oklahoma.*

*Why not attend? The work that the National Society is doing can be assessed and appreciated to the fullest extent only after having attended one of the Annual Meetings. Only official delegates can vote, but every member may express his views and opinions on the floor of the meeting if he cares to do so. In any case, the opportunity is there to obtain first hand information on what National is doing and how it functions.*

*A fine program, both business and social, has been planned. There is the possibility of including attendance at the meeting as a part of a more extended trip to Southwestern United States.*

*You owe it to yourself and to your Society to attend one of National's Annual Meetings.*

W. A. OLIVER, *Editor*

## 17TH ANNUAL MEETING OF N.S.P.E. Tulsa, Oklahoma, June 5, 6 and 7, 1952 Convention Headquarters—Mayo Hotel

Excerpts from the Prospectus:

“Meetings of wide professional interest are on the schedule. Important decisions directly affecting your professional standing and economic position will be reached; you should be present.

“You will have an unequalled opportunity to present your views to those directing our Society affairs.

“Prominent thinkers and speakers will stimulate the exchange of ideas between you and your fellow engineers.

“A visit to President Dresser's ‘Flying D’ ranch, and a feast of his famous barbecue, is planned for Sunday, June 8.

“Entertainment for the ladies is available during the entire meeting. Bring the entire family.”

## COST OF LIVING INDEX

The correction factor to be applied to the I. S. P. E. Schedule of Minimum Fees and Salaries was 188.4 for March, 1952. The factor is based upon the U. S. Department of Labor's most recent Consumer Price Index.

When it comes to borrowing trouble, a man's credit is always good.  
—Anon.

## PRESIDENT'S MESSAGE

In this month's message, your State President is going to take advantage of his position, and address the first part of his remarks to those of you who have registered under the Professional Engineering Act, but who have never bothered to change your status from State to National member. There are 480 of you, and since we have not elected anyone to the grade of State member since 1947, it means that the majority of you are older members—men who know what the Society stands for and what our program is.

One deep conviction of your President is the importance of the National Society in professional affairs. At the National level the voice of the engineer is being heard with a resonance which is commanding attention, for nearly 28,000 registered engineers are in a position where their voices can be heard. We have a “grass roots” type of organization whereby our individual members have a direct voice straight to the top, and the top is therefore a truly representative group. No wonder our legislators listen!

It is your President's firm belief that affiliating with N. S. P. E. is a moral obligation of every registered engineer. I believe we owe it to our profession—we owe it to the young engineer, and to the student—and if we are to be perfectly honest, we owe it to ourselves! The work of advancing our profession is our biggest stake in life, for engineering is our chosen work and anything which affects or may affect our field of endeavor is of prime importance to us.

Our technical problems may differ, but we all have certain fundamental concepts and principles by which we work, and these very basic ideas create conditions common to all engineers. There are social, professional and economic matters which affect us uniformly without regard to our technical field, or whether we are in industry or in private practice, or whether we are in management or the employee group. It is in these matters that we must work together and with a unified program.

Because I am so firmly convinced that the N. S. P. E. program is sound and proper, may I extend to all of you State Members who are registered my personal invi-

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## SUBSCRIPTION RATES

\$2.00 per year in advance to members of the Illinois Society of Professional Engineers. \$4.00 per year in advance to non-members in U.S.A. and its possessions, Canada, and Mexico. Foreign \$6.00. Single copies 40c. Published by the Illinois Society of Professional Engineers, Inc., at 631 East Green Street, Champaign, Illinois.  
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tation to fill in an application form and become a National Member.

President's Datebook: April 15—At Fred Tittsworth's kind invitation, journeyed to the fair city of Joliet to partake of excellent steak and fine fellowship with the Joliet Engineers' Club. Thoroughly enjoyed renewing old friendships and making new, but had no compunction about talking some forty-five minutes in spite of Max Sieberling's remarks concerning speakers who talk for three hours. Was cheered at the interest in civic affairs, and dismayed at the low percentage of National members. Left for home that night with the distinct impression that here was a chapter with its feet on the ground and a definite program ahead.

Have looked ahead in the Datebook and note invitations from Peoriarea, DuKane, Kewanee and Madison County Chapters. Trust all chapters will issue similar summons.

A. D. SPICER, *President*, I.S.P.E.

### MESSAGE FROM THE JUNIOR REPRESENTATIVE

Now that the Annual Meeting is over and we have all had time to consider what was accomplished in Peoria, I believe we should be able to clearly outline our work for the coming year and evaluate the position we should hold as young engineers in the Society.

I reported to the Board of Direction what I felt we should accomplish for the coming year. First—increase the number of young engineer members; second—regularly attend chapter meetings and actively engage in both the business and social sessions; third—make ourselves available for committee work on the state and chapter levels.

Most all of our chapters have now appointed Junior Representatives or committees to help the young engineer. Through these men I hope to bring ourselves and our ideas closer together and to make all of us better members of the Society. We have representation on the state level now and should take full advantage of it, but we cannot unless we know what everyone is thinking.

The greater portion of the objectives that our Society will accomplish this year will benefit us far more than the older members who will put their efforts into attaining these goals. The least we can do to show our appreciation is to become as much a part of our Society as possible. Our ideas and theories may be young and inexperienced, but they will be given full and honest consideration by everyone concerned. Our Society must function in the same manner as our own national government should function; by full and thorough representation from the individuals.

J. L. MILLS

### CITIES EXPAND

More than 23 million people—15 per cent of the entire population—are enabled to live in suburban areas, where they depend chiefly on the automobile and the bus for their mobility. Cities have expanded outward into the green countryside since the coming of the motor vehicle.

## VOX SECRETARII

P. E. ROBERTS, Assistant Secretary

As the 67th Annual Meeting goes into the record, the affair was a success from every angle except the attendance. The Peoriarea Convention Committee under the able leadership of Dwain Wallace performed its work so well and efficiently that few of those attending the meeting knew about some of the minor crises the committee had to handle. The phone bill of \$7.80 on local calls is an indication of some of the behind the scenes work which the committee did.

One of the hardest working members of the committee was Marv Merritt who did an excellent job on publicity and public relations. Russell Gibbs on transportation and inspection trip, Tom Borchelt on the Pabst entertainment, P. Z. Horton on housing, Roy Kastner on reception and Miss Thelma Miller on ladies' entertainment all rate a big hand on the work that each did to make the meeting smooth running and enjoyable. Special mention should be made of the Friday, 5 o'clock cocktail party given by Streater Drain Tile under the direction of Gus Schemmel and Lloyd Miller as hosts. Also, orchids to Mr. Fred Johnson, Jr. of the Construction Digest for the fine pictures he took of many who attended the meeting.

From all of the reports received by the Secretary's office, the meeting will live long in the memories of those who attended.

### Committee Appointments

Notification of committee appointments, duties of committees and letters of transmittal were mailed during the week of April 21st. Several of the committees are already at work. The various chapter membership committees have set themselves a quota on the number of applications they will present to the Board of Direction in 1952.

### N.S.P.E. Dues Increase Proposal

President Spicer has asked that the Chapter Representatives obtain information from each chapter on its feeling about the dues increase which has been proposed by N. S. P. E. He has requested in a letter to each representative that the information be obtained and sent to the Secretary's office not later than June 1st in order that it can be correlated and delivered to the Illinois Society's directors before they leave for the Tulsa Convention in June. If your chapter has not already done so, will you please do so at once?

### Dues Notice

The third dues notice was put in the mail on April 29th. If you are one of the small group who has not yet sent in your 1952 dues, will you please mail your check at once in the self-addressed envelope which is provided for your convenience?

### Miscellany

Balmy weather has brought the usual crop of artists outside on the campus of the University of Illinois. . . . Obtain that brace of applications today, Old Chap.



## COVER PICTURE

## State Geological Survey Utilizes New Seismic Equipment

On the cover of this May issue of the ILLINOIS ENGINEER is illustrated new seismic equipment recently acquired by the Illinois State Geological Survey for use by its Division of Geophysical Research. Currently it is being used in research investigations to ascertain the bedrock topography and geologic structure and to differentiate glacial deposits in the Champaign-Urbana and Tuscola areas.

In the illustration the equipment is displayed on the tail-gate of the station-wagon in which it is semi-permanently mounted when in use. In front are six of the twelve geophones in the set (Mr. Johnson is holding one of them). The other equipment, from left to right, consists of a reel with geophone cable, a water- and dust-proof case containing twelve individual amplifiers, a similar case containing twelve galvanometers, timing device, shooting circuit, and camera (above) and portable daylight developing and fixing equipment (below), and reel with wire to connect shooting circuit with the explosives.

Various operators have used shallow seismic refraction data to solve successfully problems related to geologic structure, bedrock topography, depth to bedrock, differentiation of glacial deposits, differentiation of water-bearing from dry sands and gravels, geologic foundations of heavy buildings, bridge abutments, dams, etc., highway construction, thickness of weathered soil zones, soil surveying, and similar matters. The value of seismic data depends upon the amount of collateral geological information available. With good geologic control, shallow seismic refraction data contributes much to the completion of the geologic picture between the control points, thus effecting great savings in both time and money as well as providing much more nearly complete geologic information. With poor geologic control the measure of success that can be achieved with shallow seismic refraction data depends upon the experience and keenness of the interpreter of the data.

The shallow-seismic refraction method is based fundamentally on the relative velocities with which a wave front generated by a small amount of exploded dynamite is propagated through media of different physical characteristics. These velocities are measured by recording the times elapsing between the explosion of the charge and the first arrival of the wave front at each of the twelve geophones. The "shot point" and geophones or detector stations are located along a straight line, which is called the shooting profile. The first arrivals of the wave front at all twelve geophones are first amplified by the instruments and then recorded on photographic paper. By analyzing this photographic record it is possible to determine the velocities of propagation of the wave front through the media which it encountered. Depth to the layers of different velocity can be calculated, and with geological control, inferences as to the lithology of these layers can be deduced.

## THE 67th ANNUAL MEETING IN RETROSPECT

C. T. BORCHELT

It is unfortunate that so few of our members were privileged to hear Joe Meek's talk at our annual meeting. His message was certainly timely and appropriate for the general public and specifically for the engineering profession. We were all startled by the thought that "lobbying" might be considered a profession, and even more by the thought that it was one of the oldest and most honorable of all professions. After a little reflection I am ashamed, Joe, that I have been one of those people who have been inclined to raise their eyebrows at the mention of the term "lobbyist," for you are perfectly right that this is just one of the forms of independence of thought and expression that were the foundation of this country. Under other forms of government, many were forced to work, pray, and "lobby" in secret, but under our form of government it became our privilege to have freedom in all of these things.

We hear too much discussion as to whether engineering may even be called a profession, and I wonder if the lack of recognition might not be in a large part due just to this lack of effective "lobbying." I don't mean on just a national level or a state level, but right down to our home town, our job, and our homes.

And I wish that we could have had Joe present in our session on fees and salaries before he gave his talk. Perhaps we can approach the subject ourselves with his philosophy. As I attempt this, I am convinced that we have been sitting around making motions and then burying them in the file. It is high time that we were stirred out of our complacency and into action.

In the matter of engineering salaries the bulk of our discussions deal with job classifications and what should be equitable compensation for the various job classifications. Isn't our pressing problem the manner in which we are to bargain? If we are to bargain (or lobby) as a group, then we should proceed immediately to organize and benefit by the many years of experience and precedence established by the labor unions. If we are to continue to bargain for ourselves, and certainly most of us prefer this method, then we must discuss methods and aids for the individual to use in his efforts to bargain.

As far as methods are concerned, the writer feels that an engineer should be on such terms with his employer that he can discuss his ability, responsibility, and salary without strain or embarrassment on either party. If such is not the case, he had better consider how to arrive at such a relationship before attempting to bargain.

We have available at present a number of "aids" in bargaining if we would just take them out of the files and use them. Our I. S. P. E. Schedule of Fees and Salaries, state and federal civil service classification, the Engineering Society in Transition report of the E. J. C., and the available job listings of the Engineering Societies Personnel Service are all valuable bargaining aids. I believe and have advocated for some time that the So-



ciety could render a most valuable service by annually making a simple survey and report which would tell us how we have each progressed in terms of responsibility and income compared to other engineers in our field.

I believe as we discuss salaries that we should also do a little "soul searching" to see if our demands can be justified or whether we are just following selfish motives. We often hear the remark that the catskiner or some other craftsman may be working on a project for more than the engineer in charge, and we feel that this is not equitable. Are we correct, or is the tradesman deserving of a higher compensation to offset the physical and other hazards and the undesirable working conditions of his trade? Most of us will rebel at such reasoning and with justification. Certainly the responsibility of the engineer places a burden upon him which deserves consideration. His compensation should be adjusted to cover the investment he has made in his education and to make possible a sufficient leisure so that he can keep it from becoming obsolete. He should also be adequately compensated so that men with engineering ability will not drift into other fields where ability will be lost. But if an engineer has stopped learning and has become little more than a computer or bookkeeper, then isn't it possible that he does fall below some of the tradesmen?

Do what we will then in the way of establishing job classifications and salary schedules, the amount we are paid will still be determined by the economic conditions, the effect of the lobbying and bargaining of other groups, and the effectiveness of our own lobbying and bargaining. And the prestige of the profession will also grow not just in proportion to the accomplishments of profession but in proportion to our lobbying efforts. So let's continue and expand our good work in gathering and publishing bargaining aids, and let's take this material out of the file and lobby aggressively and honorably in our nation, our state, our municipality, our home and our job.

### HIGH SCHOOL DRIVER-TRAINING GAINS GROUND

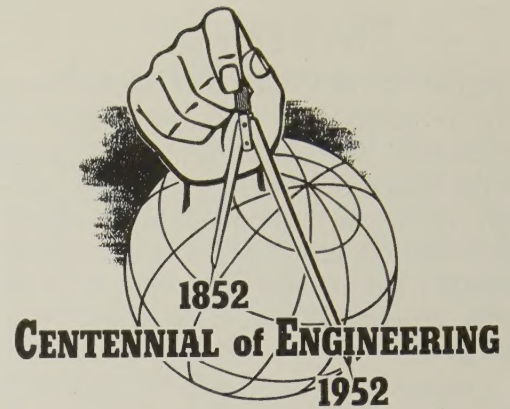
Driver-training activities in the nation's public schools increased markedly during the 1950-51 term.

A summary issued by the Association of Casualty and Surety Companies, based on reports from 48 states and the District of Columbia, shows an increase of 17.9 per cent in the number of students participating.

The reports also revealed that the number of schools offering driver-training courses increased 10 per cent over the previous year.

Nearly 8,000 schools throughout the country offered either classroom or classroom and practice driving courses. This represents about 40 per cent of all public high schools. Students participating totaled 662,370, or 43.9 per cent of all eligible students. Of these, 624,359 successfully completed the training.

—*Automobile Facts*



Completion of the 12-man list of nationally known engineers who will keynote the Centennial of Engineering to be held in Chicago this summer was reached today with announcement of the four remaining chairmen for the 11-day convocation program, scheduled from September 3 to 13.

The four who round out the convocation program and the engineering subjects to be covered under their respective leaderships, are:

**Urbanization** — Harland Bartholomew, of Harland Bartholomew & Associates, city planners, St. Louis, Missouri;

**Health**—Thomas A. Parran, of the Graduate School of Public Health, University of Pittsburgh, and former Surgeon General of the U. S. Public Health Service;

**Education and Training**—A. A. Potter, Dean of Engineering, Purdue University; and

**Professional Societies** — Harry S. Rogers, President, Brooklyn Polytechnic Institute.

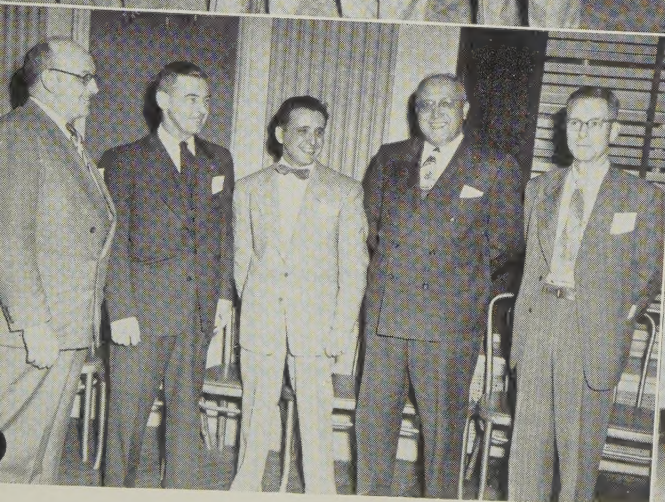
While the Centennial of Engineering, staged to commemorate the 100th birthday of the formal organization of America's first professional engineering society, will start in July, it will reach its peak during the convocation period in early September. At that time more than 30,000 representatives of the 59 American and foreign engineering groups participating in the Centennial will assemble in Chicago.

### AT THE SIXTY-SEVENTH IN PEORIA

(See Opposite Page)

1. Mrs. Dwain Wallace, young lady assistant from the Peoria Chamber of Commerce, Tom Borchelt, Dwain Wallace, Earl Cooper.
2. Mrs. P. J. Horton, Jr., Peoria; Mrs. Floyd Troxel, Decatur; Mrs. Reba Bacon, Peoria; Miss Thelma Miller, Peoria; Mrs. Dwain Wallace, Peoria.
3. Rob Roy as M. C.
4. R. G. Brichler, A. D. Spicer, V. E. Gunlock.
5. Roy W. Kastner, Jacob A. Harmon, Marvin L. Merritt, R. W. Wallace.
6. Douglas Dreier, DuKane Chapter; C. H. Sheppard, Madison County; Dwain Wallace, Peoria; V. E. Hopper, Rock River; L. F. Ryburn, Capital Chapter.
7. Lyle Porter, Rockford; Cyril R. Drew, Lake County; Manuel Garcia, St. Clair; C. E. Rogers, Joliet; John Henline, Ambraw.
8. Ozzie Osborn, pianist for those who felt the urge to sing; Marvin Merritt, Go Getter and Publicity man for the Convention; Mr. Rob Roy, still going strong.







# CHICAGO CHAPTER NEWS . . .

Illinois Society of Professional Engineers — Affiliated with the National Society of Professional Engineers

Editor—H. F. Sommerschild

53 W. Jackson Blvd.

Room 1202—Chicago 4, Illinois . . . Tel.: HARRISON 7-3383

## Directory

Cedric Hoeglund, our secretary, recently sent every member a request for data to be included in a new directory. The response to his request was good but far from 100%. The data requested included: name, company, position, type of engineering, business address and home address.

Will you please stop in your tracks, find a postcard, inscribe the information requested as pertaining to you and promptly mail to Mr. K. C. Hoeglund, Bauer and Black, 2500 South Dearborn Street, Chicago? Thank you.

## Annual Meeting Highlights

It was reported that the net worth of the Society had increased over \$1,300 during the year.

Chicago Chapter can well be proud of the magnificent manner in which Virgil Gunlock presided over the annual meeting. As all good things must end, this meeting brought to a conclusion the successful term of our chapter member as President of our State Society.

An excellent panel discussion on recommended minimum fees and salaries was held. This discussion prompted considerable participation from the floor of the convention. George DeMent was moderator of the panel.

The Illinois Award was presented to Mr. Clarence W. Klassen, Chief Engineer of the Illinois Division of Sanitary Engineering.

The report of the Registration Laws Committee revealed a great amount of activity on the part of Chicago Chapter member Alois W. Graf.

The next annual meeting will be held in the North Central Chapter area, perhaps Moline or Rock Island.

Mr. Paul Robbins, Executive Secretary of N. S. P. E., related the advent of a number of "Engineer Supplier" firms. These firms represent themselves as engineers and accept contracts to supply engineers to organizations in critical need of engineering talent. The term "Flesh Peddlers" has been attached to such operations. The government has initiated a plan to combat this maneuver. The plan would require all engineering firms to submit a report of statistics relative to their employees. Chicago Chapter representatives requested that I. S. P. E. prevail upon N. S. P. E. to oppose such an imposition suggesting that specific cases of such practice be submitted to state societies for investigation.

Mr. C. Hobart Engle, Director of the Department of Registration and Education, indicated that a representative set of questions used in the Professional Engineers registration examination will be compiled for the use of I. S. P. E.

A. Douglas Spicer of Kewanee accepted the gavel from Virgil Gunlock and presided at the Saturday Board of

Direction meeting. The fast start of Mr. Spicer gave assurance of another strong lap in the I. S. P. E. relays.

## State Committee Appointments

Chicago men named to committees of the State Society include the following:

**Civil Defense**—Larry Keoghan

**Constitutional Amendments**—Duncan Campbell, Cedric Hoeglund

**Cooperation with Illinois Architects**—Carl Metz, Walter DeCherrie

**Ethics and Practice**—Hal Hawkins

**Executive**—Virgil Gunlock

**Fees and Salaries**—George DeMent, Chairman; Chester Arents

**Honorary Membership**—Harry Lockner

**Illinois Award**—Cecil McLean

**Legislative Action**—Bob Wallace, Chairman; Leo Spurling, Art Kaindl, F. J. Schmitz

**Legislative Analyzing**—Fred Ellis

**Membership**—John Duba

**Past Presidents**—Virgil Gunlock

**Publications**—Larry Keoghan

**Public Interest**—John Dolio, A. W. Kerr, J. C. Freund

**Public Relations and Publicity**—Hal Sommerschild

**Resolutions**—B. A. Scheidt, John Fensterle

**Registration Laws**—Al Graf, Chairman

**State Building Code**—Ben Wasil, Henry Penn, Bill Weitman

**USGS Mapping**—Charles Greengard.

**Professional Education**—Wayne Wallace, O. W. Eshbach, Frank Edwards

**Military Affairs**—Jim Jun.

We surely would have a grand meeting if all of these men attended our next chapter meeting. This provides a real opportunity for John Fensterle and his Attendance Committee.

## April 10 Meeting

Chester Arents, Program Committee chairman, is to be congratulated for another excellent speaker. Those attending this meeting were engrossed with the story related by Mr. John Nuveen, investment banker, who spoke on the subject "Stop, America, Look and Listen."

## Membership

Chairman John Duba has launched the membership campaign for 1952. You recently received an admonition to enlist new members. We all have engineer friends whom we feel should be members of I. S. P. E.

It wouldn't be "cricket" to gang up on poor John, but it would be rude of us not to accept his kind offer to buy our dinner at the December meeting. Let's put that chairman to work if he really wants to enjoy the Christmas season.





### THE NEW BOARD OF DIRECTION

Front row, left to right—F. W. Edwards, Chairman, Illinois Engineering Council Representatives; H. E. Babbitt, State Secretary; R. G. Brichler, Vice-President; A. D. Spicer, President; W. A. Oliver, Editor, ILLINOIS ENGINEER, and National Director; G. L. DeMent, National Director. Second row, left to right—H. F. Sommerschild, Chicago Chapter; John Duguid, Rockford Chapter; R. M. Roy, DuKane Chapter; L. K. Crawford, Capital Chapter; C. E. Rogers, Joliet Chapter; F. L. Dunavan, Illinois Valley Chapter; C. L. Calkins, Lake County Chapter; J. L. Mills, Junior Representative, L. S. Pappmeier, West Central Chapter; John Henline, Ambraw Chapter; F. J. Meek, President, Saint Clair Chapter; P. E. Roberts, Assistant Secretary; G. H. Shanahan, Madison County Chapter; J. R. Gardner, Central Illinois Chapter; R. W. Kastner, Peoriarea Chapter.

### NOTICE TO TILE MANUFACTURERS AND DRAINAGE CONTRACTORS

We have been asked to call your attention to the fact that incentive payments for tile drainage improvements in Illinois under the 1952 Agricultural Conservation Program will be made only where the drain tile meets ASTM (American Society for Testing Materials) specifications. This requirement is in line with accepted standards for first-class drainage work and simply means that the tile must be STANDARD or EXTRA-QUALITY grade to qualify for payments.

To be valid, classification must be based on tests made in accordance with "Specifications for Drain Tile," ASTM Serial Designation C4-50T. This specification can be obtained at a cost of twenty-five (25) cents from the American Society for Testing Materials, 1916 Race Street, Philadelphia 3, Pa.

The burden of proof regarding tile quality should naturally rest on the manufacturer. In order that farmers may qualify for incentive payments, the tile producer should be asked to furnish a copy of the laboratory test report indicating the classification of the tile.

Further information may be obtained by writing B. F. Muirheid, Department of Agricultural Engineering, University of Illinois, Urbana.

### LAKE COUNTY HOLDS MEETING ON CENTENNIAL

At a recent meeting of the Lake County Chapter of the Illinois Society of Professional Engineers, Prof. Frank Edwards, Illinois Institute of Technology, disclosed details of the forthcoming engineering centennial to be held in Chicago this fall.

Perhaps the most dramatic event of the engineering centennial will be an engineering documentary theatrical show, depicting skits and scenes showing growing needs for engineers and scientists in creating the American way of living.

The show is being prepared by dramatic leaders who had charge of the Century of Progress exposition in Chicago in 1933 and 1934. One of the scenes planned will dramatize the historical story of Eli Whitney and his cotton gin.

The Lake County Chapter is working on various ways of contributing to the centennial of engineers.

Confidence in another man's virtue is no slight evidence of one's own.

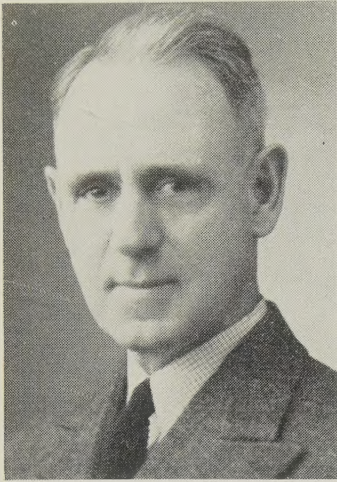
—Montaigne

If you don't enjoy what you have now, how can you be happier with more?



# Willis D. P. Warren Retires

Willis D. P. Warren, an Honorary Member of the Illinois Society of Professional Engineers and its President in 1927, and a practicing engineer well known in the field of municipal public works, retired from active participation in the profession on January 2, 1952.



Willis D. P. Warren

For the past thirty years Mr. Warren has been president of the well known engineering firm of Warren & Van Praag, Inc., with offices at Decatur, Illinois. Mr. Warren's financial interests in that company have been sold to Alex Van Praag, Jr. who, for the past six years, has served that company as executive vice-president,

and who will now become its president.

In retiring, Mr. Warren announces that he will devote his full time to the writing of books. His first book, entitled "Mid-Century Appraisal of Civilization—Measure of Decline and Method of Restoration," and published during the past year, is an effort to show the nature, character and extent of the decline and the method of restoration of civilization.

A native of Bazaar, Kansas, Mr. Warren in his early boyhood moved to Texas where he was graduated in 1906 with a degree in Civil Engineering from the University of Texas. After a number of years in employment in various assignments in the Southwest, Mr. Warren took residence in the State of Illinois where for several years he was located in the vicinity of Carlinville and Gillespie, Illinois, and associated with the late Mr. S. T. Morse in a general engineering practice. In this assignment he served several mining companies as mine engineer. During this period of time, Mr. Warren was resident engineer and assisted in locating the Illinois Traction System, now the Illinois Terminal Railroad, from Mackinaw to Lincoln.

Mr. Warren moved to Decatur in 1913 where he practiced consulting engineering and interested himself primarily in public works design and construction. Later, he associated himself successively with Messrs. R. A. Miller, F. D. Holbrook and C. R. Andrew, and in the pursuit of his engineering career served as city engineer of the city of Decatur, Illinois.

In 1918 Mr. Warren entered military service in World War I and served as a first lieutenant with the Corps of Engineers. Later, during World War II he served the U. S. War Department as architect-engineer in charge of the design and construction of utilities and facilities for Camp Ellis, Illinois.

Mr. Warren's association with Mr. Van Praag in the firm of Warren & Van Praag, Inc. dates from the year 1922.

During his engineering career Mr. Warren wrote many technical articles and papers. He was frequently selected as a program speaker at Society meetings. As early as 1913 he published an article, entitled "Concrete Pavement Failures," in which he urged the use of longitudinal center joints in concrete pavements, a method of jointing later adopted as standard practice in most concrete pavement designs. Mr. Warren was an early advocate of the use of 2½-inch thick brick for pavement wearing surfaces and presented his views concerning this subject at a 1925 meeting of the American Road Builders Association. Before the Illinois Society of Engineers, Mr. Warren's presentation in 1927 of the paper, entitled "Wells in Buried River Valley at Sullivan, Illinois," and his 1930 presentation of the paper, entitled "Design of Combined Sewers of Decatur, Illinois," are well remembered.

Mr. Warren is a member of the American Society of Civil Engineers and has been given a life membership therein. He is also a member of the National Society of Professional Engineers and the American Water Works Association.

Mr. Warren was one of the members of the first State of Illinois Engineers' Examining Committee for Registration of Professional Engineers and holds professional registration license No. 7.

The Illinois Society of Professional Engineers extends to Mr. Warren its congratulations upon having completed a long and successful career as a professional engineer.

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## P. C. A. APPOINTS NEW ADMINISTRATIVE ASSISTANT

Douglas McHenry, formerly head of the Concrete Laboratory Section of the U. S. Bureau of Reclamation in Denver, has been appointed Administrative Assistant to A. Allan Bates, Vice-President for Research and Development of the Portland Cement Association, according to a recent announcement. He assumed his new duties on April 15.

Mr. McHenry is chairman of the Technical Activities Committee of the American Concrete Institute; chairman of the Subcommittee on Evaluation of Data of the American Society for Testing Materials; a member of the American Society of Civil Engineers, the American Institute of Physics, the Society for Experimental Stress Analysis and Sigma Xi, science research society. He attended the University of Minnesota.

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Most men believe it would benefit them if they could get a little from those who have more. How much more would it benefit them if they would learn a little from those who know more?

Wm. J. H. Boetcker



# The Professional Engineer's Responsibility

L. L. DRESSER, *President, N.S.P.E.*

(67th Annual Meeting in Peoria, April 4, 1952)

Many speakers close their addresses with an appropriate quotation or poem. Being an engineer, not a speaker, I am, perhaps, typical of our profession. I want to start my remarks with a poem which I shall call "An Ode to an Engineer."

"With clouding wits the engineer sits  
And pushes pens and pencils,  
While day by day, the years slide away,  
Among his prints and stencils.  
He never shirks his tiresome work,  
He couldn't do without it;  
And if he stops, asleep he drops,  
And then he dreams about it.  
While every day, in the same old way,  
He carries out his duties;  
With never a glance for gay romance,  
And blind to all their beauties.  
And then some day, he'll pass away,  
There'll be no chance to show it;  
For engineers are dead for years,  
Before they ever know it."

I am of the opinion that this ode describes the "Model T" engineer, not the engineer of the second-half of the 20th century. The difference is because of the change in the philosophy of the engineer today, and it is a philosophy that makes the difference between a skilled technician and the professional engineer, for the engineer is he who has asked the question: "What part in the making of this a better place in which to live do I perform as an engineer?" "What must I do as a professional man to render service to the betterment of my community?" "How can I show my professionalism by displaying my good citizenship?" "Am I taking an active leadership in promoting civic improvements, better local and state government, and in participating in local public affairs?"

We are trained in sound thinking and constructive logic. The public is eager and anxious to listen to advice based on this type of thinking. But, do we do this? Some few, perhaps, the leaders of our profession. Too many are prone to wait until they are called upon. How can our professionalism show with such an inferiority complex attitude? Perhaps there was a time—once upon a time—when our business might have been our business. This is no longer the case. Everything we do, be it in private practice or in industry, affects the pleasure, health, safety, and welfare of the public—of many hundreds of people. Gentlemen, whether you realize it or not, we are the godfathers of our way of life, and of those of our communities. What a responsibility and what an opportunity.

I would like to wager that the public has learned more during the past two National Engineers' Weeks about different kinds of engineers and how they affect the pleasures and conveniences of their everyday life than

ever before. I even heard one woman say that she had learned at last what her husband did for a living. This doesn't seem strange to me, for many engineers do think that their business is their business and no one else is interested. And, for this reason, perhaps, public relations should begin at home.

A professional philosophy can best be developed and accomplished through the chapters—at home—in our own home town. It can best be accomplished through the work of committees, teaming together with a common objective. Opportunities offered these committees make possible the building of favorable opinions—good will, if you please, and prestige—among our fellow citizens. We are too often hidden behind our own creations, and we must grasp every opportunity to climb up from under that the public may see and observe us for the contributions which we make.

So, again, I ask: "Is your professionalism showing?"

We can't hope for prestige, esteem, and community stature unless we first earn it. We can't be paid by their respect, unless we perform so that they may see and evaluate our works. Appointment to a local committee or the election to a professional society office is a high and distinct honor. It has been made because of the faith which our colleagues place in us. We must not fail them. Each of us owes much to those who in the past have contributed freely of their time, so that we are even where we are today. Therefore, we owe a debt to them, and the only way which we can pay this is through our contributions to others that our profession may continue to progress. So let's not be don'ters; let's be doers.

We may be latecomers, professionally, but that's no reason why we can't win in the home stretch. We also must not forget that we can add to our stature by cooperating and working with the other professions, for we have much in common. No profession can survive unless it is under a system of free enterprise. Can we, therefore, as engineers, afford to allow even a single profession to lose this essential privilege? This may be one of our more important problems and tasks.

It has been said that the scientist and most other professions solve the problems which can be solved, but that it remains for the engineer to solve the problems which can't be solved. Perhaps, if our philosophy is right, this will be true. So, let's show our professionalism by showing our good citizenship at home and at the polls.

Don't be discouraged if at first the public does not recognize and appreciate our civic contributions for the public is fickle and suspicious. They have had sad and bitter experiences in the past, and have reasons to question the sincerity of many endeavors. If you will pardon me, I should like to tell you a story—a personal experience—to illustrate just how strange the public reacts.



Many of you perhaps know that I have a ranch known as the Flying D Ranch. It is in a community some 170 miles from Tulsa, my home. It so happened that this community was one of those communities in which everything that had been done had not been done right—they had not received value for their time and effort. It so happened that the work on conservation which we had done on our land had been recognized by the society of the Friends of the Land, in which Louis Bromfield has taken such an important part. It occurred to my son and I that it would be a good gesture on our part if we invited the public to visit the ranch and to inspect the various programs which we had under way. We therefore sent out invitations and published a public notice, through the local newspaper, that on such and such a date there would be an all-day tour and inspection of our ranch and, during the noon hour, a barbecue would be served to all guests. When the day came and luncheon time arrived, I could not help but observe that many, even prominent, ranchers of the locality were conspicuous by their absence. Upon inquiry to a local banker, whom I knew would be able to give me the information that I wanted, "how come that certain prominent local people were absent?" (in fact, the banker was absent), after a moment's hesitation, he replied, "Mr. Dresser, you know that the public is fickle—they're suspicious." Upon my inquiry as to what they could be suspicious about, he replied: "You know, Mr. Dresser, just such a gesture has never before been made in our community, and many think that there might be a catch in it." Three years later, instead of having 225, we were blessed, if you want to call it that, with over 2600 people at the annual tour.

This gives me an occasion to extend to all of the engineers in the National Society of Professional Engineers an invitation to attend the barbecue at the Flying D Ranch on Sunday, June 8, following the Annual Convention which is to be held in Tulsa on June 5, 6, and 7. I invite you to come, bring your families, and see if there is a catch in it.

I am sure that both you and your family will enjoy a day in the mountains in Southeastern Oklahoma with other engineers and their families from all over the nation. When you return to your home you will feel that you are proud that you are one of the engineering profession, for your professional outlook will be broadened, and your desire to be of service to your fellow men will follow you for the days to come.

#### MORE TRANSIT BUSES

There are almost four transit buses to every street car. 57,570 transit buses are now in use—an increase of 19 per cent since 1944. (They supplied 8.5 billion rides in 1950.) Surface electric railway cars in use have decreased 33 per cent during the same period.

Love and a cough cannot be concealed.

—*Latin Proverb*

## Lavern A. Miller

Mr. Lavern A. Miller of Streator, Illinois passed away at Palmetto, Florida January 22, 1952. He was born April 10, 1899 and was the youngest son of Mr. and Mrs. Henry Miller of Leland, Illinois. He is survived by his wife and one son, L. A. Miller, Jr., of Chicago.

Memorial services were held in the Edwards Funeral Home in Palmetto, Florida. Pursuant to the wishes of the deceased the remains were cremated in Florida and returned to Leland, Illinois for interment.

Mr. Miller practiced engineering for over 25 years and for the past 17 years had resided in Streator, Illinois. During this time he was responsible for the design of municipal improvements, drainage and organization projects in Michigan, Texas and Mexico and numerous improvements in Illinois. In the past 15 years he had specialized in municipal improvements in Illinois and hundreds of communities obtained new waterworks facilities, sewage disposal systems, schools, stadiums, streets, etc., as a result of his labors. Besides his engineering practice, Mr. Miller owned the controlling interest in the M-R Material Supply Co. of Peru, Illinois, manufacturers of concrete drainage tile.

Mr. Miller was very active in professional circles. He was a member of the Illinois Society of Professional Engineers and the National Society of Professional Engineers. His efforts were largely responsible for the formation of the Valley Chapter of the I. S. P. E. and for a number of years he was president and an officer in that organization. He gave generously of his time and effort and was active in many professional committees and organizations. Mr. Miller was a member of the Methodist Church and was a 32nd Degree Mason.

Mr. Miller's engineering practice which was carried on under the name of L. A. Miller and Associates will be continued by his partner, Mr. Robert E. Rolston, and his son, Mr. L. A. Miller, Jr.

#### MORE OLD CARS IN '51

The annual inventory of motor vehicles recently completed by R. L. Polk and Company reveals the following:

On July 1, 1951, there were 38,516,000 private passenger cars registered in the U. S., of which 16,519,000, or 43 per cent, were pre-war models.

There were more cars in the 10-year and over class in 1951 than in 1950, and three times as many in this class as there were in 1941. For 1941, 1950 and 1951, the 10-year-old or older cars on the registration lists numbered 4,757,00, 14,827,000, and 15,553,000 respectively.

More than 25,000 U. S. communities depend almost entirely on highways for their existence, in the absence of other forms of frequent or dependable transportation, yet they play important parts in the nation's economy.

One hundred and sixteen million motor vehicles have been produced in the United States in the past fifty-one years.



# News From Chapters

## Central Illinois Chapter

The January meeting of the Central Illinois Chapter of the Illinois Society of Professional Engineers was held at the Greider Cafeteria at 6:30 p.m. Thursday, January 24, 1952, there being 24 members in attendance.

The program committee presented Fred Bandelin, Director of Research for Flint Eaton and Company, who gave a very interesting talk on various new drugs and medicines and their use by the medical profession.

J. F. NOLAN, *Secretary*

## Joliet Chapter

The regular monthly meeting of the Joliet Engineers' Club was held at Little Jack's Restaurant on Plainfield Road Tuesday evening, Feb. 19, 1952. Twenty-two members and guests were present. Following dinner, the meeting was called to order at 8:05 p.m. by President Fred H. Tittsworth. The secretary read the minutes of the January 15th meeting, which were accepted as read.

Chapter Representative C. E. Rodgers again announced that the annual meeting of the Illinois Society of Professional Engineers would be held in Peoria on April 3, 4, and 5, at the Pere Marquette Hotel. He urged everyone to attend.

President Tittsworth reported that Secretary W. K. Waltz and he had attended the Chapter Officers' Conference at Peoria on February 2. He stated that the meeting was very well attended and that much good came out of the conference. He mentioned that among the many subjects discussed, membership was given a good deal of time. One point brought out as an answer to what you get out of belonging to the Society, was that you get out of the organization just what you put into it.

The question of raising the local dues from \$2.00 to \$3.00 per year was brought up. President Tittsworth asked for a general discussion. After much deliberation it was decided to drop the matter for the present and concentrate on a program of establishing a more effective system of collecting the present dues. A motion was made by W. K. Waltz and seconded by L. C. Gilbert, to authorize the treasurer to send out a bill for local dues to each member at the beginning of each year. The motion was carried.

W. K. WALTZ, *Secretary*

The Joliet Engineers' Club held its regular meeting at Little Jack's Restaurant March 18, 1952, at 6:30 p.m. The meeting was called to order by President Fred Tittsworth at 8:13 p.m. On account of the absence of the secretary, the minutes of the previous month's meeting were read by the vice president, William S. Chaney.

President Tittsworth announced that the state president of the Society had been invited to speak at our April meeting.

The meeting was attended by 17 members and 10 guests.

President Tittsworth urged members of the Society to concentrate on getting new members for our group so we could expand our membership.

The program committee chairman, Mr. Les W. Keeler, then presented Mr. J. A. Ryan, Coal Traffic Agent of the Chesapeake and Ohio Railroad, who presented a film entitled "Powering America's Progress" which was a very interesting film covering the mining and hauling of coal.

WILLIAM S. CHANEY, *Vice-President*

## Capital Chapter

A regular meeting of Capital Chapter was held Tuesday, February 26, at 8:00 p.m., in the auditorium of the Centennial Building. Approximately 175 members, their guests, and interested citizens of Springfield attended.

The program, a panel discussion by experts on the pros and cons of fluoridation of public water supplies, was of such general interest that the chapter decided to open the meeting to the public. The Sangamon County Medical Society and the Sangamon County Dental Society became interested, and each was represented on the panel.

The panel was made up of Clarence Klassen (member of Capital Chapter), who acted as moderator; Dr. Julius S. Cass, of the Kettering Medical Research Laboratory at the University of Cincinnati; Dr. Winston H. Tucker, City Health Officer of Evanston, Illinois; Dr. J. A. Stocker, Sangamon County Medical Society; Dr. John Ketterer, Sangamon County Dental Society; and Carl C. Larson, Supervising Chemist for the City of Springfield.

A regular meeting of Capital Chapter was held Tuesday, March 25, at 7:30 p.m., in the American Legion Hall. The meeting was presided over by President Ryburn. Forty-eight members and guests were present.

An interesting and informative program on television transmission was presented by members of the Illinois Bell Telephone Company Engineering Staff. Mr. Horace H. Lambie, Special Service Engineer from the Chicago office, ably described micro-wave and wire facilities for carrying network and local television programs, and utilized slides and movie film to illustrate his talk. Mr. George P. Schleicher, Special Services Engineer, continued the program with an excellent description of how special events, such as athletic contests, are picked up and transmitted via television. Mr. R. A. Shewalter, local manager, was instrumental in arranging the program; and we are indebted to Illinois Bell for a fine evening of entertainment.

A short business meeting followed the program. The following business was transacted:

A communication from I.S.P.E. President V. E. Gunlock to Chapter President Ryburn advising us that Capital Chapter has been chosen by the Federal Civil Defense Administration to assemble an inventory of engineering equipment available in the event of an



emergency. The area to be covered is Sangamon County, Illinois. President Ryburn announced that the work of preparing the inventory had been assigned to the Civil Defense Committee, Carl E. Thunman, chairman.

A report, in the form of a statement from Capital Chapter, prepared by Member J. P. Murphy, outlining the position of the Chapter on fluoridation of public water supplies, was read and presented for approval. There being no corrections or objections, the statement was accepted and approved. CHAS. H. MERCHANT, *Secretary*

### Madison County Chapter

Eighteen members and nine guests met on the evening of Tuesday, Jan. 8, 1952, at the Edwardsville Gun Club at 8:00 p.m.

After members and guests introduced themselves, the minutes of the November 13, 1951, meeting were read and approved. President Sheppard announced the appointment of committees for the year 1952.

George Shanahan announced the Refresher Course for Professional Engineering Examination, being sponsored by the chapter in cooperation with the State Highway Engineers Association and St. Clair Chapter.

Mr. J. D. Voorhees reported on the annual meeting of the Illinois Engineering Council held in Springfield.

Mr. Willis, Chapter Representative, advised the gathering of the requirements for taking applications for membership from men not registered as Professional Engineers in the State of Illinois. He also announced that thought should be given to any matters that the chapter might wish to have discussed at the annual meeting.

Mr. George Thatcher called attention to the steel scrap shortage and requested members to encourage immediate sale of all available scrap to help alleviate the nationwide shortage.

The Executive Committee recommended that chapter dues for the year of 1952 be the same as the preceding year.

Moved by Adams, seconded by Graham that chapter dues remain at \$2.00 for the year 1952. Motion carried.

Mr. Graham then presented Mr. King Kennedy of the Portland Cement Association who showed a film on prefabricated concrete housing construction. Following the film and a short discussion of the construction methods used, the meeting adjourned. M. B. CORLEW, *Secretary*

### Egyptian Chapter

The Egyptian Chapter of the Illinois Society of Professional Engineers held its meeting on March 11, 1952, at the Jackson Country Club with the President, Fred H. Persson, presiding, and with 21 members and guests present.

The minutes of the preceding meeting were read and approved. The treasurer's report showed a balance of \$26.89; it was read and approved. President Persson called attention to the coming State Convention at Peoria.

Since this was the delayed annual meeting, the nominating committee made the following report: For the chapter president for 1952, Mr. John T. Blankenship, 401 S. 17th St., Murphysboro, Illinois; for chapter vice president for 1952, Mr. Carl Hindman, R.F.D. 3, Marion, Illinois; for chapter representative for 1952 and 1953, Mr. J. L. Burnett, 1206 Carter Ave. (P.O. Box 497), Carbondale, Illinois.

In each case there were no nominations from the floor and it was moved by Mr. Anderson and seconded by Mr. Kerwath that the report of the nominating committee be accepted and the nominees be unanimously elected, and these motions carried unanimously.

Program Chairman, Mr. Kerwath, presented Mr. J. R. Broderick, Division Engineer of the C.I.P.S. Company, Marion, Illinois, who spoke as an engineer to engineers on the economic aspect of a power plant now being built in Joppa.

Mr. Broderick stated that this plant is being built by Electric Energy, Inc., as a private enterprise having a firm contract with the Atomic Energy Commission for sale of power, and intended to produce approximately 500,000 kilowatts of power with total cost expected to approximate \$100,000,000.00. Electric Energy, Inc., is a corporation formed by five existing utilities serving this and adjoining areas. The plant will have four steam boiler turbine units and will use pulverized coal for fuel. These units with their various transmission lines and other facilities are as large as any in existence.

This plant will burn approximately 2½ million tons of coal in a year, or approximately 7,000 tons per day, which is the equivalent of total production from one large coal mine. This will probably be Southern Illinois coal. Direct economic benefits will approximate \$400,000,000.00 yearly in wages to the coal miners, with \$3,300,000.00 paid to the railroads as freight, which will go principally into labor in this area, all in addition to actual plant operation, which will employ approximately 200 people when completed. Present construction payroll runs approximately \$800,000.00 per month.

J. L. BURNETT, *Secretary-Treasurer*

### DuKane Chapter

The regular April dinner meeting was held April 17, 1952, at the Red Lion Inn with 16 members and guests in attendance.

Because of the meager turnout, and in deference to the speaker of the evening, the reading of the minutes of last month's meeting was dispensed with, and the Convention report was postponed.

Dinner tickets for the ISPE-NSPE Convention dinner in the Grand Ballroom of Chicago's Sherman Hotel to be held Friday night, September 5, may be had from your secretary.

Program Chairman W. C. Harlan introduced Agent Albert Aman of the Federal Bureau of Narcotics. His topic was most timely and educational, especially to those who either have teen-aged children or are con-



needed with them in some close manner. His remarks were not intended to be entertaining, but were rather shocking, and sometimes almost sickening, revelations of the horrible entanglements of the narcotics habit. Here was a program which every adult should have had the benefit of hearing.

Engineer F. S. Weir has moved to Dallas, Texas. Good luck, Si.

GEORGE M. BOOTH, JR., *Secretary*

### Joliet Chapter

The regular monthly meeting of the Joliet Engineers' Club was held at Little Jack's Restaurant, on Plainfield Road, Tuesday evening, April 15, 1952. Twenty-three members and guests were present. Following a very delicious dinner, the meeting was called to order at 7:58 p.m. by President Fred H. Tittsworth. The secretary read the minutes of the previous meeting, which were accepted as read.

President Tittsworth announced that instead of the regular meeting, it was proposed to hold the Engineers' Brawl at Silver Lake golf course on May 17, provided the response to a questionnaire being mailed out indicated that a sufficient number of the members would be present.

Vice-President Chaney, chairman of the membership committee, reported that they are doing their best to get new members. Advised that he was in hopes of getting three or four at the Caterpillar Tractor Co.

Chapter Representative C. E. Rogers spoke about the recent annual State Convention. He advised that he was much concerned over the fact that no one was present from the Joliet Chapter.

Mr. Rogers also advised that he had received a letter from our State President concerning the matter of raising the annual dues for NSPE. The letter expressed a fear that if NSPE dues were to be raised, our State dues would have to be reduced an equal amount so that the total dues of \$17.00 would remain constant, otherwise our membership would drop. The National Constitution now limits the dues to \$10.00 and any recommendation to increase beyond that amount would require a constitutional change. Mr. Rogers has been requested to endeavor to obtain definite expressions of opinion from the National members of the Joliet Chapter. President Tittsworth advised that he would appoint a committee to contact the members and report the results to Mr. Rogers.

Mr. Rogers also outlined the requirements for becoming a National member, and requested that in securing new members we give this the proper attention.

President Tittsworth read a letter received from the Joliet Association of Commerce relative to closing the bridges at Joliet during certain hours of the day to relieve the traffic situation. The Association requested that we lend support to this civic problem by sending a petition or resolution to our Senators and Congressmen in Washington. After some discussion Mr. Rogers made a

motion and Mr. Sanger Brown seconded the motion that a resolution be sent. It was passed.

Our State President, A. D. Spicer, was then introduced as our speaker of the evening. He gave a very interesting and enlightening talk on the history and faults of the Professional Engineering Societies and the birth of NSPE, which now has about 25,000 members. He also discussed the organization of the Society on a Chapter, State and National level. Mr. Spicer also announced that two new committees had been formed this year; namely, The Professional Engineering Education Committee, and The Military Affairs Committee.

W. K. WALTZ, *Secretary*

### West Central Chapter

The April meeting of the West Central Chapter of the Illinois Society of Professional Engineers was held Thursday evening, April 17, at Club 19, Galesburg, Illinois.

President Missman called upon Chapter Representative Louis Pappmier who gave a review of the annual state meeting held in Peoria. He spoke of the plan for appointing a junior member of the state committee, and of the talk of raising the National Society dues from \$7.00 to \$10.00 per year, and of the plan for the National Society to hold three board meetings per year instead of two and our plan to have two members present at the board meeting. He spoke of the plan for a National Public Relations committee and a National Membership Roster. Mr. Pappmier also spoke of the National Society's need for finance reserve fund. He stated that the question of raising the National Society's dues will come before the annual society's meeting to be held in Tulsa, Oklahoma. He spoke of the close operating conditions of the Illinois Society on account of its limited income. Mr. Pappmier also reminded the membership of the Engineering Convention in Chicago and the display at the Museum of Science and Industry at the same time.

It was moved by Harold Pappmier and seconded that Wm. Barnes be the junior member from this Chapter appointed to the state board, motion carried.

Much discussion was made on the problems of raising the National Society dues. It was moved by Louis Pappmier that the West Central Chapter go on record as being in favor of raising the National dues, it was seconded and by vote it carried. It was then moved by Mr. Louis Pappmier that West Central Chapter go on record as being in favor of raising the National dues to the amount of \$2.00, it was seconded and carried.

President Missman opened for discussion the question of the 1953 State Convention, he recognized Mr. James Morrow, who made the following motion: That a State meeting executive committee consisting of Mr. James Palmer, chairman, and Lee Osborn as co-chairman be created and that this committee shall continue to function until the close of the 1953 State Convention, that the committee shall have the power to appoint all com-



mittees and make all necessary arrangements for the 1953 State Convention. This committee shall report to the Chapter meetings as they progress and their needs. This motion was seconded and carried.

The meeting was then turned over to Wm. Hardine who introduced as the speaker, Mr. Wm. Haiflinger of the Portland Cement Association, who showed a colored picture of the lilt up method of concrete construction. Mr. Haiflinger answered many questions on their type of construction after the close of his picture.

CLAUDE F. BATES, *Secretary*

### Illinois Valley Chapter

The regular meeting of the Illinois Valley Chapter of the Illinois Society of Professional Engineers was held Tuesday, March 25, 1952, at Kohry's on Route 6, west of Peru, Illinois.

Following dinner the meeting was called to order by President Louis Bowman, who introduced the guests. The treasurer's report and minutes of the previous meeting were read and accepted.

Director Frank Dunavan spoke concerning the Engineering Council. Vice President Dean Antrobus commented on the possibility of having a social event in the near future. A motion was made and carried that the program chairman, Jack Hollerich, and his committee arrange the date and details. The program chairman presented a very interesting film on coal and its place in our economy. ROSS WAITE, *Secretary-Treasurer*

### Ambraw Chapter

The regular meeting of the Ambraw Chapter of the Illinois Society of Professional Engineers was held at the Legion Home in Newton, Illinois, on March 20, 1952, with President Walters presiding.

Dinner was served at 7:00 p.m. and the meeting was called to order at 8:00 p.m. Nineteen members and two guests were present.

The minutes of the meeting held January 18, 1952, were read and approved.

I. C. Bliss submitted his resignation as chapter secretary-treasurer. Mr. Bliss's resignation was accepted and C. P. Mathy was nominated and elected to the office of secretary-treasurer.

The following bills were allowed: For stenographic services and other incidental expenses—\$4.15.

Mr. John Henline, Chapter Representative, asked for definite instructions from the Chapter on action to be taken on the publishing of a yearbook. It was the consensus that due to the small number of copies needed, the cost of publishing would be prohibitive. It was moved by J. A. Hardwick, seconded by A. L. Colpitts, that we do not approve the publishing of a yearbook at this time but that consideration be given to making supplemental membership lists available.

Mr. Henline talked briefly about the coming Engineering Centennial which is to be observed by the Illinois

Society with an all-day meeting and dinner at the Sherman Hotel, Chicago, on September 5, and about the drive for membership to get past the 2000 mark.

The question was raised as to whether or not the revised Constitution and By-Laws now permitted the acceptance of applications for State Member from persons qualified for National Member. There was no definite answer given and H. L. Brissenden suggested that information concerning the classes of membership be made available to all the members as an aid in the membership drive.

The treasurer's report for 1951 was read by the secretary.  
C. P. MATHY, *Secretary*

### Central Illinois Chapter

The February meeting of the Central Illinois Chapter of the Illinois Society of Professional Engineers was held at the Surrey Cafe, 134 E. Prairie, at 6:30 p.m., Thursday, February 28, 1952, there being 27 members in attendance.

A discussion was held about the possibility of chartering a bus to make the trip to Peoria, for the annual meeting in April, and as it would require about 30 passengers to charter a bus, and there not being that many that would make the trip by bus, the question was held over for the next meeting.

The program committee presented Chester Cavalitto, Technical Director of Irwin-Neisler Company, who gave a very interesting talk on "Serendipity."

J. F. NOLAN, *Secretary*

### Rock River Chapter

The regular meeting of the Rock River Chapter, I.S.P.E., was called to order by President V. E. Hopper at 8:15 p.m., at the Dixon Elks Club, with 42 members and guests in attendance.

Reading of the minutes of the previous meeting was omitted due to previous publication in the ILLINOIS ENGINEER. There were no corrections.

Mr. Robert Hoffman of the Publicity Committee reported on activities of that Committee.

Mr. F. W. Forman, chairman of the Engineer in Training Committee, reported that letters are being sent to various high schools in the Chapter area regarding interviews with the graduates interested in engineering.

Mr. David Crawford, chairman of the Community Planning Committee, reported that letters have been sent to the mayors and presidents of village boards in the Chapter area inviting them to consult with the Committee regarding plans for civic improvement.

Mr. C. K. Willett, chairman of the Membership Committee, reported that the committee is planning an intensive drive for new members and reinstatement of previous members that have dropped their membership. Membership applications have been secured for two new members to date.



Mr. R. H. Anderson, Chapter Representative, reported on activities of the Board of Direction and in answer to a question, explained the E.I.T. membership.

President Hopper then turned the meeting over to Mr. H. W. Donaldson, Vice President and chairman of the Program Committee. Mr. Donaldson introduced Mr. F. D. Haberkorn, Sales Manager of Caterpillar Tractor Company, Peoria, Illinois; Mr. F. E. Rusher, Director and Sales Manager of the Peoria Tractor and Equipment Company; and Mr. Emmerson Rapp, Field Representative of the Peoria Tractor and Equipment Company. Mr. Haberkorn entertained the members with a talk and movie of the "Problems Confronting the Earth Mover" in which he explained the different types of movers, their economic and physical characteristics, etc.

L. F. HOLSTERN, *Secretary*

### Peoriarea Chapter

Meeting held at the University Club on March 20, 1952. The meeting was a joint meeting with the Peoria Chapter of A.S.M.E. Dinner at 6:30. Thirty-one present of which 13 were from I.S.P.E.

Wallace announced the annual convention to be held in Peoria on April 3, 4, and 5. Everyone welcome to attend.

The speaker of the evening was Alex Van Praag of Decatur. His subject was "What's New in Government Legislation Affecting Engineers."

A most interesting and educational talk was given by Mr. Van Praag. He discussed government control and confusion and how the engineer was affected. He also discussed the subject of unity in the profession.

The following are the minutes of the April meeting. The meeting was held at the Cilco hall on April 17, 1952. The meeting opened at 8:00 p.m. with a report from R. W. Kastner, Chapter Director.

John R. Longley gave a report on the next meeting. It is to be a joint meeting with the local chapter of the American Association of Engineers.

The speaker of the evening was Mr. Eugene Leiter. He spoke on the subject, "The New Form of Government for the City of Peoria." Mr. Leiter gave a very interesting talk on how the new administration would operate and the need for electing qualified aldermen. Discussion followed Mr. Leiter's talk.

The meeting was again opened for new business. Mr. Kastner suggested that all members possible should attend the hearing to be held April 21 in connection with the proposed new downtown bridge.

Mr. Borchelt brought up the subject of the chapter taking part in a meeting of all chapters in Springfield to which all legislators are invited. The secretary was instructed to write the Springfield Chapter for details.

Dean Gibbs announced meeting next Wednesday at Peoria High for all boys and their parents who are interested in engineering.

C. G. SAVILLE, *Secretary*

### Madison County Chapter

The February 12, 1952 meeting was called to order by President Sheppard at Quonset Hut at the Shell Refinery with fourteen members and three guests, all from the Sinclair Oil Co., present.

Mr. King gave the group information on the fluoridation of water, listing several towns using it. He stated the cost is about 20 to 30 cents per capita per year and that the mechanics of introducing the fluorine is much the same as other water treatment. The chapter then went on record as favoring the course of giving information as to cost and method of application when requested as only that information is an engineering function.

The Registration Law report brought up a discussion on the floor in which all agreed that we get very little enforcement in return for the registration fee collected. Mr. Shanahan reported that refresher course will be available for structural and land surveyor examinations in the fall.

Report by Mr. Willis on the Board of Directors meeting stated that the Constitution and Code are to be printed at Society expense and the Directory part was tabled. The Engineering Centennial at Chicago was discussed. The Board approved the Engineer Joint Council as the over-all representative for the various groups.

The meeting was then turned over to the program chairman who introduced Mr. C. A. Davidson, research chemist from Shell, who gave an illustrated lecture on "A Submarine Pipe Line in Borneo."

M. B. CORLEW, *Secretary*

### CAPITAL CHAPTER'S FINDINGS CONCERNING FLUORIDATION OF A PUBLIC WATER SUPPLY

The question of whether or not fluorine should be added to the public water supply of Springfield, for the purpose of reducing dental decay, has been given considerable examination by the members of Capital Chapter. To further enlighten the membership on this subject, an open forum was sponsored by the chapter, on February 25, 1952, at which the pros and cons of the question were discussed by five well-known and respected experts on one or more phases of the question.

The five experts were from the fields of public health, dentistry, medicine, toxicology, and water treatment. At the request of the Springfield City Council, the public was invited to attend the meeting. Each authority was allowed ten minutes to present his facts and his views. Following these presentations and a brief rebuttal by each speaker, the meeting was thrown open to questions from the audience. Participation by the audience was enthusiastic and, at times, the discussion was hot, but always orderly. A chapter member acted as moderator.

As a result of information obtained at this meeting and from other sources, it appears to the members of the chapter that the question of fluoridation involves three considerations:



# Acknowledgments With Thanks

The Peoriarea Chapter of the Illinois Society of Professional Engineers acknowledges with thanks the generous support of the following firms and their cooperation and contributions:

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## 1. Medical

The preponderant, but not unanimous, opinion of medical, dental, and public health authorities appears to be that proper application of fluorine to a public water supply, such as Springfield, will substantially reduce dental decay among the children (and throughout their later adult lives) of the community, and that such application will not affect the health of the community in any other manner.

As engineers, our opinion on the medical aspects of fluoridation does not, or should not, carry any more respect than the opinion of any other lay group. However, as a professional organization, we express our respect for, and confidence in, the facts presented by the medical and dental authorities.

## 2. Engineering

The economics, equipment, and technique of applying fluorine to a public water supply in desirable and controllable quantities is primarily an engineering consideration. As engineers, we believe it is well established that proven equipment and safe application methods are available, at a reasonable cost, for the purpose of adding fluorine to the public water supply, at any desired rate.

## 3. Political

A question of philosophy is one of the political considerations. Some opponents of fluoridation object to the philosophy of using a public water supply as the

medium for fluoridation, on the grounds that it sets a dangerous precedent by "forcing" the public to accept a medical remedy for the correction of dental decay. Such a precedent, the opponents further contend, might lead to the use of a public water supply for other, more objectionable medical remedies. Another political consideration is that of public opinion. Some opponents of fluoridation contend, medical and dental opinion notwithstanding, that experiments in the fluoridation of a public water supply have not been continued long enough to determine conclusively that the results of fluoridation are all beneficial. Another question of opinion is whether another common medium, such as sugar, salt or milk, may not turn out to be at least as desirable as the public water supply for adding fluorine to the human body. Others believe that the cost of fluorine will probably rise considerably if its application to the water supply is widely accepted. Other fluorine mediums would use only a fraction of that required for water supply, since much less than one per cent of the treated water supply is used for human consumption.

Since there can be no conclusive answers to these political considerations, we, as an engineering group, have no opinion on the political aspects of the fluoridation questions.

However, we strongly urge all members of our profession, as citizens, to consider carefully all aspects of the fluoridation question, to form individual convictions, and to assert their convictions in a democratic fashion.



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Logical reasoning is something familiar to engineers. Logical thinking in politics is something which might improve the world conditions today. Such thinking is expressed in the following little story:

A politician was being interviewed by the press. One reporter asked, "Do you feel that you have influenced public opinion, sir?"

"No," he answered. "Public opinion is something like a mule I once owned. In order to keep up the appearance of being the driver, I had to watch the way he was going and follow closely."

Because of the political considerations involved, we believe the issue can most properly be decided by a local referendum. If such a referendum is held, we urge that members of the engineering profession help to present the facts and clarify the issue.

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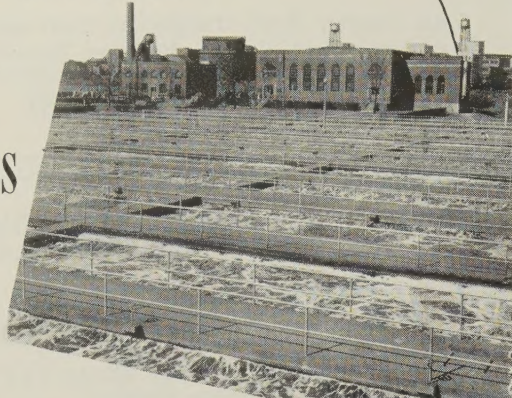
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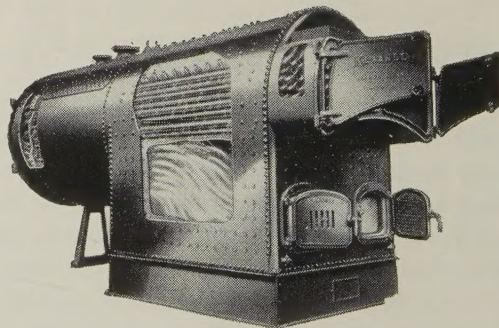
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